

Project Manager Training Devices

VISION: To be the <u>first-choice</u> provider of innovative Live Train solutions for the Warfighter <u>and Coalition Partners.</u>







MISSION: <u>Lead lifecycle management</u> of collective Live Training capabilities that are interoperable with Virtual

and Constructive simulations for use at Homestations, Maneuver Combat Training Centers and deployed sites improve Warfighter readiness in peace and war

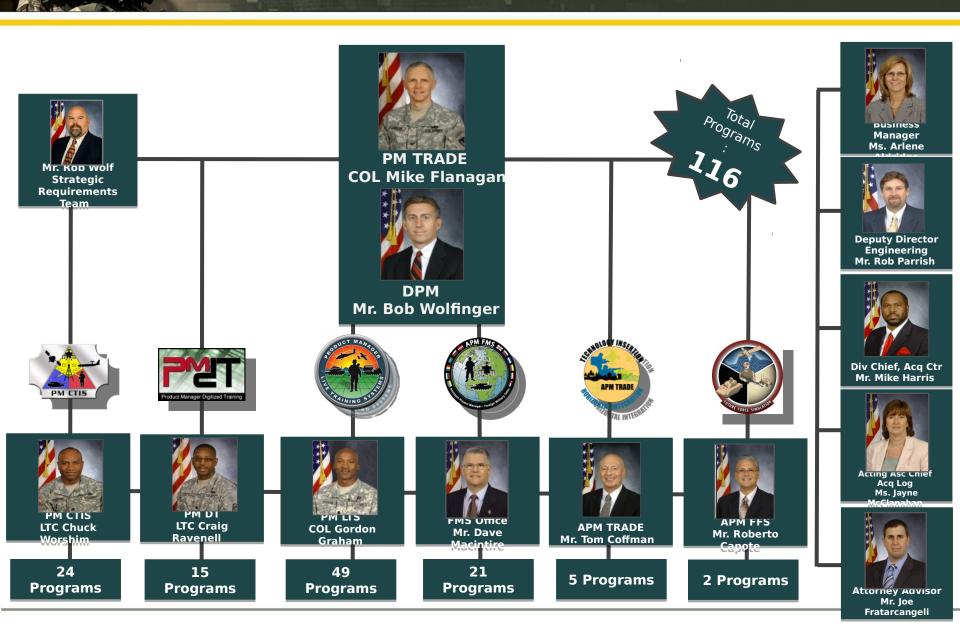








PM TRADE Project Management Office



Live Training Agenda



- PM TRADE/PM TRASYS Partnership
- Industry Business Dev. Planning Map
- Live Training Systems of Systems
- Business Opportunities
- Live Training Standards and Workshops
- Trends in Training TRADOC Perspective

PM TRADE/PM TRASYS Partnership



☐ <u>Initiatives</u>

- Player Unit (PU) radio and Spectrum
- Tactical EngagementSimulation Systems (TESS)
- Immersive environments
- Architecture migration & evolution
- Cultural training (role players)

□ Common Themes

- Common Training
 Instrumentation Architecture
 (CTIA)
- Consolidated Product-line Management (CPM)
- Marine Corps Instrumented Training System (MC-ITS)
- Target synchronization
- Future Army System of Integrated Targets (FASIT)

Train to Fight, Fight to Win

TOGETHER

Industry Business Dev. Planning

Manual Acquisition Transformation: Process / Product /



Re $\stackrel{(1)}{\sim}$ est For **Informati** on (RFI) Market

- ✓ InitResearch Investigation of **Industry Base** Capability
- ✓ Limited Technical/ **Business Case** Information to Frame **Investigation**
- ✓ Phone Calls, Open House, Contractor Rough Planning Guide Proposal Due in ~ ...

PM TRADE

Program Development Timeline Estimates and Information Release Term)nology

Sources Sought

- ✓ Requirement **Documentation** for Industry Comment (2nd round may occur for complex programs)
 - Business Case Information
 - Key Technical **Documents**
 - Industry Day

Consistency & Quality



Pink Team Review

Draft RFP

✓ Mature Draft Package with **Finalized** Specification, SOW, and CDRLS



Red Team Review

Final RFP

Proposa Is Due

D~180 One-on-

D~120

D~60/45

D-0

90 Days

ID~270

60 Days

-60 Days

~60 Days



Business Opportunities

Organizatio		<u>RFP</u>	PM TRAD
<u>n</u>	<u>Program</u>	<u>Release</u>	<u>Award Date</u>
PM DT	(BES) II	Nov 2011	Apr 2012
PM DT	CTC Live Fire	Dec 2011	Mar 2012
PM CTIS	CTC-IS Mod	Sep 2011	May 2012
PM CTIS	HITS EXCON	Jun 2011	Sep 2011
PM LTS	OSWV	TBD	Mar 2013
PM DT	PDSS	Sep 2011	Jan 2012
PM DT	N-CHS	Sep 2011	Jan 2012
PM DT	CATSD	Oct 2011	Jan 2012

BES II -- Battlefield Effects Simulator
CTC Live Fire -- CTC Live Fire Modernization
CTC-IS Mod -- CTC-IS Modernization
HITS EXCON -- Home Station Instrumentation

OSWV -- Opposing Force Surrogate Wheeled Vehicle **PDSS** -- Post Deployment Software Support

N-CHS -- Non-Contact Hit Sensor Development

HITS EXCON -- Home Station Instrumentation Training System EXCATSD -- Common Armor Target Silhouette Develop

Battlefield Effects Simulator

Description/Summary of Program Requirements:

BES II will produce a flash/bang and smoke signature, which simulates/replicates a large caliber weapon fire of a hostile threat.

BES II will simulate/replicate an impact round on an armor target using M34 (LA54) (Hostile Fire) Cartridges and M35 (LA53) (Target Hit) Cartridges.

It is anticipated that the Government will require delivery of up to 1200 or more BES launcher systems with associated equipment, initial spares, New Equipment Training (NET), and installation support for Fiscal Years

2012-2017 at various Army Installations world-wide. Acquisition Strategy | Period of Performance

- Outside of STOC II
- Competitive
- Single IDIQ Award

- Base period: Apr 2012 to Mar 2017
- Five (5) years with a Three (3) year base period and two options for one year each

Milestones

Aug 2011

Nov

2011

Industry Day

RFP Release Contract Award

Apr 2012

Point of Contact

Name: Ms Randi Kahl **Organization: PM DT** Phone: 407-384-5194

Email: randi.kahl@us.army.mil

Funding

• Total funding (OPA) ~ \$35 M

Current Contract/Original Developer/OEM (if

recompete)

- N61339-05-D-0019/Allied Tech LLC
- Solicitation W900KK-11-R-0008

CTC Live Fire Modernization

Description/Summary of Program

Rear remembs apabilities for the CTCs to support the transition from Mission Rehearsal Exercise/Situational Training Exercise (MRE/STX) rotations to Full Spectrum Operations (FSO) against a hybrid threat.

Requirements/Capabilities:

- Replaces Armor Tank Kill Simulators (Hoffman Devices) with the Battlefield Effects Simulator (BES)
- Refreshes/Replaces obsolete Target Lifters and Thermal Signature **Devices**

Acquisition StrategyControl Systeme from The Ferformance

Range Targetry ATKS Replacement

- CARTS IDIQ; LOT II BES II IDIQ
- Competitive Competitive delivery order delivery order

• FY12-17

Point of Contact

Name: LTC Craig Ravenell

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craig.ravenell@us.army.mil

Funding

• FY12-13 funding (OPA) ~ \$5M



Milestones

Mar 2012 TBD Dec 2011



Industry Dav

RFP Release

Award

Current Contract/Original Developer/OEM (if recompete)



CTC-IS Modernization

Description/Summary of Program

CTC Requirements des incremental upgrades to the CTC-IS infrastructure, voice, data and video at NTC and IRTC as well as life cycle

technology refreshment of CTC-IS components to satisfy current and future

force training requirements. Provides tools to establish high fidelity, cause and

effect analysis of brigade and below collective training performance in full



\$PACE UISIGION Strate gy of environmence

- STOC II Delivery Order
- Full Open Competition
- Cost Plus Fixed Fee

 Base 2-Year award with 3 option vears

Milestones

Mar 2011 Sep 2011 May 2012





Industry Day

RFP Release Contract Award

Point of Contact

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Contract Funding

- RDTE FY 11 16: \$25 Million
- OPA FY 12 16: \$220 Million

Current Contract/Original Developer/OEM

 Multiple contractors provide current

CTC-IS capabilities. The LT2 FTS strategy provides a portal to share

common solutions among all

CTCs.



Homestation Instrumentation Training System EXCON (HITS



Description/Sฉะบทเลาy of Program Requirements:

Provides deployable instrumented training capability to support platoon thru battalion level Live collective Force-on-Force maneuver training. HITS tracks locations of soldiers and vehicles and simulates weapons effects, allowing units to Train as they Fight against live opponents. HITS provides accurate feedback to training units. HITS consists of deployable components that can be rapidly assembled/disassembled and transported to support deployed training. HITS is integrated with legacy and future TES.



Acquisition Strategy

- Mature, demonstrated capability; using LT2 ICDs
- 8(a) Small Business

Period of Performance

- Single IDIQ; five year contract with four ordering periods
- Qty: 21 sites

Milestones

Feb 11

Industry Day F

Jun 11

RFP Release Sep 11



Contract Award

Life cycle support through Refint of Contact

Name: Ms. Christie Martinez Organization: PM CTIS Phone: (407) 208-3218

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Funding

\$20.6M OPA FY11-15

Current Contract/Original Developer/OEM

• First system built by IPKEYS, an SBA

8(a) Program participant.



Opposing Force Surrogate Wheeled Vehicle (OSWV)

Description/Summary of Program Requirements:

Upgrade US Army Combat Training Center Opposing Force Vehicles (Tactical, Technical, & COB Vehicles)

- Tactical Vehicles: Develop and Integrate Visual Modifications (VISMODS) on existing tactical vehicles HMMWV \sim 69, APC \sim 123 (Vehicle Type TBD)
- Technical Vehicles (Pick-Up Trucks w/ mounted weapons): Acquire/configure ~270 with Weapon Mounts
- Civilian On Battlefield Vehicles (COB-V): ~450 used cars and trucks
- Instrumentation: MILES and CTC Radios integration (MILES/Radios acquired via current MILES contracts)

Acquisition Strategy

- Acq. Strategy TBD Capability Production Document in Development
- Market Research to be conducted in early to mid FY12

Period of Performance

• TBD

Milestones	
Jun 2012	Mar 2013
Industry Day	Contract Award

Point of Contact

Name: COL Gordon Graham

Organization: PM LTS

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Email: gordon.graham@

us.army.mil

Funding

 ~\$30M OPA on contract over FY13- FY16 (does not include MILES acquisition)

Current Contract/Original Developer/OEM (if recompete)

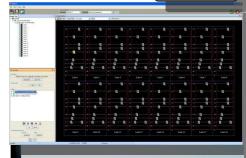


Target Modernization and Post Deployment Software Support

Description/Summary of Program Requirements:

The Target Modernization effort will provide the sustainment and support for the Government owned common target control system (Targetry Range Automated Control and Recording (TRACR)); integration of legacy target system adapters and new target system technologies; upgrade to existing range facilities; support for new interface control documents and technology demonstrations; and sustainment of the Future Army System of Integrated Targets (FASIT) specification and standards

TRACR/FASIT is located at 30 installations: 76 small arms and 27 maneuver ranges. There are approx. 20+ range upgrades in progress





Acquisition Strategy

- CARTS IDIQ; LOT II
- Competitive
- Single award

Period of Performance

- Base period: Sep 2011 to Aug 2015
- Base Year, plus four one-year options

Funding

- ~\$800K OPA/RDT&E Base Year
- ~\$3.6M OPA/RDT&E Option Years

Milestones

Feb 2011

Sep 2011

Jan 2012

Market Research **RFP**

Contract

Current Contract/Original **Developer/OEM**

- LT2 Support Contract Riptide
- CPM ID/IQ DO#04 GDC4S

Point of Contact

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Target Modernization Non-Contact Hit Sensor Development

Description/Summary of Program Requirements:

The Non-Contact Hit Sensor will be designed and developed to track the location of miss and hit for both supersonic and subsonic munitions on live fire training ranges. Current small arms technology only supports supersonic munitions. The ability to detect subsonic rounds will lead to greater training fidelity in the realm of armored gunnery training as well as live fire exercises utilizing counter defilade and air-burst weapons, such as the MK-19 and M203. Portability, scalability, and stand-alone operations are key factors.





Acquisition Strategy

- CARTS IDIQ; LOT II
- Competitive
- Single award
- Three distinct phases: Technology study, Bread-board integration and Final

prototype

Point of Contact

Name: Mr. James Todd Organization: PM DT Phone: 407-384-3905

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Period of Performance

Sep 2011 to Mar 2013

Funding

- ~\$100K RDT&E Phase I
- ~\$500K RDT&E Phase II
- ~\$400K RDT&E Phase III

Milestones

Jan 2011

Sep 201

Sep 2011 Jan 2012

Market Research

Draft RFP Release Contract Award

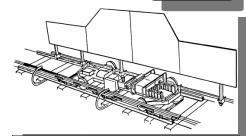
Current Contract/Original Developer/OEM



Target Modernization Common Armor Target Silhouette

Description/Summary of Program Requirements:

The Common Armor Target Silhouette will be designed and developed to create a standard armor silhouettes usable on all live fire training ranges, allow for the creation of a National Stock Number to support ordering and resupply, and reduce the overall weight of the armor silhouette. The aim will focus of the manufacturing, replication, recycling, durability, and ability to support current Combat Identification (CID) technologies. This effort will develop only a limited number of target silhouettes; if the concept/technologies prove viable, additional silhouettes will be developed. All silhouettes parameters are defined within TC 25-8.





Acquisition Strategy

- CARTS IDIQ; LOT III
- Competitive
- Single award
- Two phases: Definition and Prototype

Period of Performance

• 15 Month Award

Milestones

Aug 2011

Oct 2011

Jan 2012

Contract

Market Research

Draft RFP

Award

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Funding

- ~\$100K RDT&E Phase I
- ~\$300K RDT&E Phase II

Release Current Contract/Original Developer/OEM



Live Training Standards & Works

Standardization of What?

- Capabilities
 - Instrumentation System (IS)
 - TESS
 - Targetry
- Architecture
 - Databases / Data Models
 - Services
 - Interfaces
- SW Components
 - C4I Interface
 - 2D Map
 - Tools
- Processes
 - LT2 ConOps
 - LT2 Portal
 - PL Acquisition
- Requirements
 - Specifications
 - Performance Parameters
- Design
 - · CBT
 - GUI
- Next Generation Distributed Training

FY11

- IS-TESS Standard
- PAN Standard √
- Video SOA Standard
- Networks/Radio Comms Standattandard
- RTCA Standard(s)

FASIT



- Presentation Device 2.Q/
- Range Effects Devices 🏑
- Sound Effects Devices
- Audio
- •LVC
 - Interface (JBUS)
 - Terrain DB format

- FY12 + Beyond
- Embedded Training
- arcandard

Computer-Based Training

- Training Records
- Aviation Standards
- Power Standard
- Mobile App Framework
- Visual Cueing
- Smoke/Smell Generation
- Medical
- Electronic Warfare



Potential Workshops/Industry

Forums



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